

Message

From: Garrard, Jordan [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7E4EA13086D941BE834ABFB88243C662-GARRARD, JORDAN]
Sent: 4/26/2019 2:49:46 PM
To: Eichinger, Kevin [Eichinger.Kevin@epa.gov]
Subject: Re: OSC Benzene Monitoring as Oil Spills

Thanks Kevin

Jordan Garrard
On Scene Coordinator
EPA Region 4
Garrard.Jordan@epa.gov
678-644-8648

On Apr 26, 2019, at 10:45 AM, Eichinger, Kevin <Eichinger.Kevin@epa.gov> wrote:

This mainly applies to the ER Section, but I included all OSC's (see the following email trail for background)...

As discussed in an ER meeting last month, I have built Benzene Sampling Kits for us. Kits will be placed in the ER trucks during the next checkout and one kit was issued to Leo. The RRC will maintain one kit that can be overnighted to a response as needed. We should implement benzene personal sampling when we are downrange performing oversight, sampling, SCAT'ing, etc. We would not (unless the OSC decides to) implement the sampling if we are mainly working at the Command Post and only making periodic site visits. For example; at the first Colonial Spill, the OSCs performing OPS and Field Observer Tasks would have worn the samplers, but not necessarily the IC and Planning folks working in the ICP. Please take a look at the attached directions. Let me know if they make sense. We will have hands-on training for the ER Section but I will also include the Removal OSCs in case you are in the office and interested.

I know many of you may not have industrial hygiene sampling training and experience but I did not want to create a program that required me or another IH to be deployed, let me know if the directions are intuitive and easy to understand.

Also attached is an updated Oil Spill Response Best Practices Guide. It is still draft and I am looking for feedback.

Kevin

From: Eichinger, Kevin
Sent: Wednesday, March 13, 2019 11:35 AM
To: Moore, Tony <moore.tony@epa.gov>
Cc: webster.james@epa.gov; Scott, Barbara <Scott.Barbara@epa.gov>; francendese.leo@epa.gov; Harper, Greg (Harper.Greg@epa.gov) <Harper.Greg@epa.gov>; Garrard, Jordan (Garrard.Jordan@epa.gov) <Garrard.Jordan@epa.gov>
Subject: Benzene Monitoring as Oil Spills

Tony,

We have been wrestling with benzene monitoring during oil spills for awhile now. Greg and Jordan are working on real-time monitor options for the program; however, we need to implement industrial

hygiene monitoring to back-up the real-time monitoring and for OSHA compliance. The real-time monitoring for benzene is problematic because the current instruments available are not necessarily benzene specific and we really do not get a true benzene exposure value for our folks (talking EPA OSCs not contractors). Oil spills are the one response where we routinely go down range for oversight, SCAT, etc. I would like to implement a benzene monitoring program using OSHA approved passive dosimeters. The dosimeters would be kept on the response trucks and with the Outposts. The dosimeters then get sent off to a laboratory for analysis. The OSC would don them if they are doing oversight/work in the zone so not every spill/every OSC would require monitoring. I would set up the program to make it easy for the OSC's to use the units and send off for analysis (prefilled UPS forms, training, quick guides, preapprove purchase card approval for lab analysis, etc.). I was still working on all of the costs, but the initial purchase of the dosimeters would be around ~\$600 through GSA Advantage. There would be 5 units on each response truck and 5 units with each Outpost. I would order spares later so we can manage the expiration dates efficiently. They have a 2 year shelf life. I'll talk with Greg to see if the RRC can handle replacement when they are used or expire. Sample analysis would be around \$53 per each dosimeter. Last year we had roughly 10 oils spills that would warrant employee monitoring for benzene. Based on the duration and number of OSCs onsite, I estimate that the monitoring would have cost the program \$2,800.

Instructions: <https://multimedia.3m.com/mws/media/2111300/3m-organic-vapor-diffusion-monitor-3500-3510-3520-3530.pdf>

YouTube video on how the dosimeters work: <https://www.youtube.com/watch?v=MrmPiCVZPBQ>

Kevin

Kevin Eichinger, CHMM - Federal On-Scene Coordinator and Industrial Hygienist
U.S. Environmental Protection Agency, Region 4 | 61 Forsyth St SW | Atlanta, Georgia | 30303
Emergency Response, Removal and Prevention Branch (ERRB)
office: 404-562-8268 | cell: 678-897-3759 | response.epa.gov

<Quick Start Guide for use of the 3M 3520 Monitor for Employee Industrial Hygiene.pdf>

<Petroleum_Spill_Health_and_Safety_BPG_03182019_V3_Draft.pdf>